

## SYSTEM AND METHOD FOR RECEPTION, PROCESSING AND TRANSMISSION OF DIGITAL AUDIO STREAM

### ABSTRACT OF THE DISCLOSURE

A system and methods are described for processing digital audio stream data from received  
5 transport streams. A transport stream parser identifies particular transport packets related to audio  
stream data. The transport stream parser enables audio parser and provides packet identifiers of the  
particular transport packets to the audio parser. The audio parser selects the particular transport  
packets from a transport stream. The audio parser discards transport packets not related to specific  
audio types and provides packetized elementary stream audio data to an audio decoding system. The  
10 packetized elementary audio stream data is processed into an I2S elementary stream and decoded  
into pulse-coded modulation (PCM) audio data for output through an external audio receiver, such as  
through a digital to analog converter. The packetized elementary stream data and I2S elementary  
stream data are also stored in memory for playback requests generated by the audio decoding system  
at a later time.